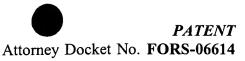


PENDING CLAIMS

- 109. A kit, comprising:
 - a) a cleavage means; and
- b) a first oligonucleotide comprising a duplex region adjacent to a single-stranded 3' arm.
- 110. The kit of Claim 109, wherein said first oligonucleotide comprises a fluorophore having quenched emission.
 - 111. The kit of Claim 109, wherein said cleavage means comprises an enzyme.
 - 112. The kit of Claim 111, wherein said enzyme comprises a DNA polymerase.
- 113. The kit of Claim 112 wherein said DNA polymerase comprises a thermostable DNA polymerase.
- 114. The kit of Claim 113, wherein said thermostable DNA polymerase is derived from an organism from genus Thermus.
 - 115. The kit of Claim 111, wherein said enzyme comprises a 5' nuclease.
- 116. The kit of Claim 111, wherein said enzyme comprises a thermostable 5' nuclease derived from a thermostable DNA polymerase modified to have reduced synthetic activity.
- 117. The kit of Claim 109, wherein said first oligonucleotide is less than 100 nucleotides long.
- 118. The kit of Claim 109, wherein said first oligonucleotide is less than 50 nucleotides long.



- 119. The kit of Claim 109, further comprising a second oligonucleotide.
- 120. The kit of Claim 119, wherein said second oligonucleotide comprises a region complementary to said single-stranded 3' arm of said first oligonucleotide.
- 121. The kit of Claim 119, further comprising a first nucleic acid molecule containing a portion complementary to at least a portion of said second oligonucleotide.
 - 122. The kit of Claim 121, further comprising a third oligonucleotide.
- 123. The kit of Claim 122, wherein said third oligonucleotide contains a portion complementary to at least a portion of said first nucleic acid molecule.